

# **Interview Summary**

Application No.

10/039,277

Applicant(s)

HUSSON, FRANK D.

Examiner

CARL D. PRICE

Art Unit

3743

All participants (applicant, applicant's representative, PTO personnel):

(1) CARL D. PRICE.

(3)\_\_\_\_\_.

(2) MR. REITER (REG. NO. - 31,192).

(4)\_\_\_\_\_.

Date of Interview: 24 June 2003.

Type: a) ☐ Telephonic b) ☐ Video Conference  
c) ☒ Personal [copy given to: 1) ☐ applicant 2) ☐ applicant's representative]

Exhibit shown or demonstration conducted: d) ☒ Yes e) ☒ No.

If Yes, brief description: a flexible water bag having insulation, reflective and transparent layers.

Claim(s) discussed: (proposed amended claims attached).


Identification of prior art discussed: See Continuation Sheet.

Agreement with respect to the claims f) ☐ was reached. g) ☒ was not reached. h) ☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: The differences between the prior art and the claimed invention were discussed. In particular, the manner in which applicant incorporates a temperature history indicator as a part of the filler cap was discussed. An overview of the manner of manufacture and operation and intended use of the disclosed invention as a water pasteurize. No agreement was reached.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN ONE MONTH FROM THIS INTERVIEW DATE TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

  
Carl D. Price  
Primary Examiner

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

Examiner's signature, if required

## Summary of Record of Interview Requirements

### Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

#### Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

##### Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

#### 37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,  
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

#### Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

Continuation of Identification of prior art discussed: KLEINWAECH(DE 2851793), BILLINGHAM

(WO86/07627), YONAHARA (JP360133260), STOUMEN ET AL (US6263870), POSNANSKY (US4196721), HUYCK et al (US2856886), GB 2040436, BURKHARDT (US4557251), HUYCK ET AL (USUS2856930), RYDER (US3939968), HALLECK (US4311793), HALLER (US6295663), HALL (US4520793), PELEHACH (US3949095), STOWELL (US4696284), CANADA (CA 1182702), .

June 20, 2003

SOLAR1120-3

(051264-0306)

Title: **SOLAR WATER HEATER AND PASTEURIZER**

Please amend claims 1-3, 5-22, 24-26, 28-37, 39, 43 and 56 as follows. Please cancel claims 4, 23, 27, 40-42 and 48-55 without prejudice. This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A solar water ~~heater~~ pasteurizer comprising:  
a flexible water-tight resealable container having at least one water-tight spout with a mating resealable cap, wherein said resealable cap comprises one or more temperature indicators for indicating the temperature history of the water contained therein,  
at least one energy converting structure as an integral part of said container,  
wherein said structure is incorporated within said water heater, and  
insulation structure sufficient to enable said heater to achieve water temperatures of at least 60° C, wherein said insulation structure is an integral part of said container.
2. (Currently amended) A water ~~heater~~ pasteurizer according to claim 1, wherein said ~~container is rigid~~ temperature indicator is made of a glass tube.
3. (Currently amended) A water ~~heater~~ pasteurizer according to claim 1, wherein said container comprises a ~~glass or~~ polymeric material.
4. (Cancelled) ~~A water heater according to claim 1, wherein said container is flexible.~~
5. (Currently amended) A water ~~heater~~ pasteurizer according to claim 1, wherein said energy converting structure is contained within said container.

6. (Currently amended) A water ~~heater~~ pasteurizer according to claim 5, wherein said energy converting structure is colored to enhance energy absorption thereof.

7. (Currently amended) A water ~~heater~~ pasteurizer according to claim 5, wherein said energy converting structure is black.

8. (Currently amended) A water ~~heater~~ pasteurizer according to claim 5, wherein said energy converting structure is coated on the internal surface of said container.

9. (Currently amended) A water ~~heater~~ pasteurizer according to claim 5, wherein said energy converting structure is flexible and expansive.

10. (Currently amended) A water ~~heater~~ pasteurizer according to claim 5, wherein said energy converting structure is pleated, or layered to maximize the surface area thereof.

11. (Currently amended) A water ~~heater~~ pasteurizer according to claim 5, wherein the position of said energy converting structure is adjustable within said container; and where an attachment is part of said energy converting structure to allow adjustment of the converting structure from outside said container.

12. (Currently amended) A water ~~heater~~ pasteurizer according to claim 5, wherein said energy converting structure is a two-sided panel.

13. (Currently amended) A water ~~heater~~ pasteurizer according to claim 12, wherein said panel is bonded to one or more interior surfaces of said container.

14. (Currently amended) A water ~~heater~~ pasteurizer according to claim 13, wherein said panel comprises flow structure that provides for flow of water from a first side of said panel to a second side of said panel.

15. (Currently amended) A water ~~heater~~ pasteurizer according to claim 14, wherein said panel comprises a perforated polymeric material.

16. (Currently amended) A water ~~heater~~ pasteurizer according to claim 1, wherein said insulation comprises one or more insulating structures selected from gas contained within air-tight structures, and/or closed or open cell foam.

17. (Currently amended) A water ~~heater~~ pasteurizer according to claim 16, wherein said insulating structure comprises at least one inflatable airspace inside of said container.

18. (Currently amended) A water ~~heater~~ pasteurizer according to claim 16, wherein said insulating structure comprises at least one inflatable airspace outside of said container.

19. (Currently amended) A water ~~heater~~ pasteurizer according to claim 16, wherein said insulating structure comprises at least one inflatable airspace inside, and at least one inflatable airspace outside of said container.

20. (Currently amended) A water ~~heater~~ pasteurizer according to claim 16, wherein said insulating structure is coextensive with said container.

21. (Currently amended) A water ~~heater~~ pasteurizer according to claim 16, wherein said insulating structure on both the front and back of said container is inflatable.

22. (Currently amended) A water ~~heater~~ pasteurizer according to claim 16, wherein said insulating structure comprises an energy reflective surface.

23. (Cancelled) ~~A water heater according to claim 1, wherein said resealable container comprises at least one water-tight threaded spout with a mating threaded cap.~~

24. (Currently amended) A water ~~heater~~ pasteurizer according to claim ~~23~~ 1, wherein said water-tight cap further comprises a pump-action pressurized sprayer, and/or a water-well pump configuration.

25. (Currently amended) A water ~~heater~~ pasteurizer according to claim 1, wherein said resealable container comprises at least one outlet that may have a spout, stopcock, sprayer, shower, sport-cap or filter-containing attachment.

26. (Currently amended) A water ~~heater~~ pasteurizer according to claim 1; wherein said container comprises one or more hanging attachments to enable gravitational effects to dispel water.

27. (Cancelled) ~~A water heater according to claim 1, further comprising a temperature indicator for indicating the temperature history of the water contained therein.~~

28. (Currently amended) A water ~~heater~~ pasteurizer according to claim ~~27~~ 1, wherein said temperature indicator is a thermometer, a liquid crystal sheet indicator, or a water pasteurization indicator (WAPI).

29. (Currently amended) A water ~~heater~~ pasteurizer according to claim 28 wherein said temperature indicator comprises 2 or more different temperature WAPI's.

30. (Currently amended) A water ~~heater~~ pasteurizer according to claim 1, further comprising one or more particulate, anti-microbial, or charcoal filters.

31. (Currently amended) A water ~~heater~~ pasteurizer according to claim 30, wherein said filter is associated with said resealable opening, such that water introduced into and/or dispensed from said container passes through said filter.

32. (Currently amended) A solar water ~~heater~~ pasteurizer comprising:  
a flexible water-tight resealable container having at least one water-tight threaded spout with a mating threaded cap, wherein said threaded cap comprises one or more temperature indicators for indicating the temperature history of the water contained therein,

one or more energy converting structures therein, as an integral part of said container, and

at least one insulating structure as an integral part of said container to reduce energy loss from external surfaces thereof and provide insulation sufficient to enable said water heater to achieve water temperatures of at least 60° C.

33. (Currently amended) A water ~~heater~~ pasteurizer according to claim 32, wherein said container comprises one or more pleated structures to provide for expansion of the container upon filling said container with liquid.

34. (Currently amended) A water ~~heater~~ pasteurizer according to claim 32, further comprising a reflective ~~cooker~~ panel, and/or solar cooker.

35. (Currently amended) A water ~~heater~~ pasteurizer according to claim 34, wherein said reflective ~~cooker~~ panel and/or said solar cooker is placed external to said container.



36. (Currently amended) A solar water ~~heater~~ pasteurizer comprising:  
a flexible water-tight container, wherein said container comprises a top and a bottom and at least one resealable opening, wherein said resealable opening comprises at least one water-tight spout with a mating cap, wherein said cap comprises one or more temperature indicators for indicating the temperature history of the water contained therein,

one or more energy converting structures therein, as an integral part of said container, and

at least one insulating structure to reduce energy loss from external surfaces thereof and provide insulation sufficient to enable said water heater to achieve water temperatures of at least 60° C, wherein said insulating structure is an integral part of said container.

37. (Currently amended) A method for the production of potable water, said method comprising exposing water contained within a water ~~heater~~ pasteurizer according to claim 1 to a suitable energy source for a time sufficient to pasteurize said water.

38. (Original) The method according to claim 37, wherein said suitable energy source is sunlight.

39. (Currently amended) A method for the pasteurization of water, said method comprising exposing water contained within a water ~~heater~~ pasteurizer according to claim 31 to a suitable energy source for a time sufficient to pasteurize said water.

40.-42 (Cancelled) ~~A method for the pasteurization of water, said method comprising introducing at least one energy converting structure and water into a transparent container and exposing said container to a suitable energy source for a time sufficient to pasteurize said water.~~

~~41. (Original) A method for the pasteurization of water, said method comprising introducing at least one energy converting structure and water into a container, surrounding said container with insulating material, and exposing said water heater to a suitable energy source for a time sufficient to pasteurize said water.~~

~~42. (Original) The method according to claim 41, further comprising surrounding said container with a solar cooker, or another energy focusing device.~~

43. (Currently amended) A method of assembly of a solar water ~~heater~~ pasteurizer, said method comprising stacking first, second and third sheets of a flexible polymeric material, bonding said sheets together at or near the perimeters of said sheets to create a three-ply structure, wherein said first and second sheets upon bonding, form a water-tight container containing therein said third sheet, wherein at least said first sheet is transparent, ~~and~~ wherein said third sheet is an energy converting structure, wherein said first and/or second sheet contains at least one water-tight spout with a mating cap, and wherein said cap comprises one or more temperature indicators for indicating the temperature history of the water contained therein, intimately associated therewith.

44. (Original) A method of assembly according to claim 43, wherein said third sheet is perforated.

45. (Original) A method of assembly according to claim 43, wherein said first and/or second sheets comprise a first resealable opening for the introduction of water therethrough.

46. (Original) A method of assembly according to claim 43, further comprising stacking and bonding a fourth sheet of flexible polymeric material to said first or second sheet of material along the perimeter thereof, said fourth sheet providing a transparent insulating airspace.

47. (Original) A method of assembly according to claim 46, wherein said fourth sheet comprises a second resealable opening for the inflation of said insulating airspace.

~~48.-55. (Cancelled) A solar water heater kit to be used with existing containers comprising at least one energy converting structure, and at least one thermal insulating structure.~~

~~49. (Original) The kit according to claim 48, further comprising one or more particulate, anti-microbial, or charcoal filters.~~

~~50. (Original) The kit according to claim 48, further comprising a temperature indicator for indicating the temperature history of the water contained within said water heater.~~

~~51. (Original) The kit according to claim 48, further comprising a universally fitting cap, spout, stopcock, sprayer, shower, or sport cap attachment compatible with said existing container outlet.~~

~~52. (Original) The kit according to claim 48, further comprising a reflective cooker, and/or solar cooker.~~

~~53. (Original) A solar water heater kit to be used with existing containers comprising at least one internal energy converting structure, and a reflective cooker, and/or solar cooker.~~

~~54. (New) A water heater according to claim 23 wherein said threaded cap further comprises one or more water pasteurization indicator(s) (WAPIs).~~

~~55. (New) A water heater according to claim 27 wherein said temperature indicator is an integral part of said container.~~

56. (Currently amended) A solar water pasteurizer comprising:  
a flexible water-tight resealable container having at least one water-tight threaded spout with a mating resealable cap,  
at least one energy converting structure as an integral part of said container,  
wherein said energy converting structure is incorporated within said water pasteurizer,  
wherein said energy converting structure is colored to enhance energy absorption thereof,  
wherein said energy converting structure is a two-sided panel, wherein said panel  
comprises flow structure that provides for flow of water from a first side of said panel to  
a second side of said panel,  
insulation structure sufficient to enable said pasteurizer to achieve water  
temperatures of at least 60°C, wherein said insulation structure is an integral part of said  
container, and  
at least one temperature indicator for indicating the temperature history of the  
water contained therein, integrally associated with said resealable cap.